

**SECRET**

MONTHLY REPORT



25X1

PAR 224

7 August 1964

SUBJECT: 3-15X Fluid Gate Enlarger

TASK/PROBLEM

1. Develop and fabricate an enlarger having continuously variable magnification from 3 to 15X for 70mm square negative gate size. Print sizes to range to 40 x 40 inches on cut sheet stock.

DISCUSSION

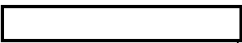
2. Work is proceeding with close correlation to that on PAR 202. Effort since 10 July has been on:

a. Study of structural design and materials for the vacuum platen. No serious problems have been encountered.

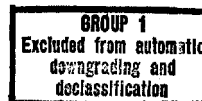
b. The study on the motor-blower unit for the vacuum platen is not completed.

c. Several components of the negative transport model are completed, and others are being fabricated.

d. The lens design group has made excellent progress on the family of monochromatic lenses. They report 50% to 70% completion with compliance with specifications reasonably assured for 5 of the 6 designs. The condenser lens designs are complete but formula sheets are not yet released.

e. We have received a design program plan for the color corrected lenses from  The condenser lenses designed for the monochromatic lenses are expected to also be useable with the color corrected lenses.

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Declass Review by NGA.

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PLANNED ACTIVITY

3. Effort in the next period will be:
  - a. Continuation of the vacuum platen structure and blower studies.
  - b. Completion of drawing releases for the negative transport model.
  - c. Issue orders to allow the lens design group to proceed with the design of the color lenses upon completion of the monochromatic.

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